MOTOROLA
intelligence everywhere™

GM338•LS
PROFESSIONAL
MOBILE RADIO

Smart Simplicity in Mobile Communications

WE HEAR YOU

From advanced audio technology to a large alphanumeric display, programmable channel spacing and more, mobile radio users around the world advised us what they need in a new generation mobile.

Introducing the GM338•LS professional mobile radio from Motorola.

Operating on the highly efficient UHF LTR Trunking Systems, the GM338•LS is ideal for organisations that require flexible and customised communications.

Applications include all transport operations, mining, government services, security operations and many more.

The GM338•LS … We listened, and now everyone will hear you, loud and clear.

ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is available so that the radios can be customised to suit your needs. Adding the proper handset, speakers, microphones & mounting accessories can enhance your productivity. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio.

GM338•LS KEY FEATURES AND BENEFITS

ADVANCED AUDIO TECHNOLOGY
Motorola's special voice compression and low level expansion technology enables crisper, clearer and stronger audio quality, allowing you to communicate even in noisy environments.

15 TRUNKED ZONES (16 TALKGROUPS EACH)
Multiple talkgroup capacity offers up to 16 talkgroups per trunking zone enabling each team to communicate easily and discreetly. Four Customisable Function Buttons gives users the flexibility to assign their most useful operation to these specific buttons and label them with related icons.

14-CHARACTER ALPHANUMERIC DISPLAY WITH USER-FRIENDLY ICONS
Clearly identifies trunk zones, talkgroups, and conventional channels making information easy to read and to understand.

SWITCHABLE CHANNEL SPACING
Flexible and easy migration of channel spacing, protects your investment should your country's regulatory channel spacing requirement change.

LARGE CONTROL BUTTONS
The large control buttons allow users easy management of menu, navigation and exit functions.

REPEATER TALKAROUND
Freedom to communicate via a repeater for wide area coverage or bypass a repeater for unit-to-unit communication.

VOICE STORAGE
Records important messages or personal memos up to 120 seconds.

SYSTEM/ALL GROUP/AUTO GROUP SELECTIVE SCANNING
The 3 scan modes allow users to define the frequency and type of transmission your radio scans.

ADVANCED SIGNALLING
Enhanced MDC1200 Signalling (Encode/Decode) features on LTR.

CALL ALERT
An alert tone notifies the individual of incoming calls.

CALL ID
Identifies incoming callers.

SELECTIVE CALL
The radio sends and receives unique individual voice message for privacy, or group voice message for improved productivity.

RADIO CHECK
Auto check as whether radio is operating or within range.

ONE-YEAR WARRANTY
Each Motorola radio is backed by a 1-year warranty on radio parts and labour.

ACCELERATED LIFE TESTING
Motorola's Accelerated Life Testing simulates five years of use in real life.

MIL-STD 810C, D AND E
Tested and approved to U.S. Military standards for ruggedness and durability.

ISO 9001 STANDARD
Compliance with ISO 9001 Standard, an international quality system assurance on design, development, production, installation and servicing of a product.

RMN4026
Enhanced keypad microphone

RLN4802
Remote mount kit

RLN4857
Push button with remote PTT

RLN4856
Foot switch with remote PTT

GENERAL

* Frequency	450-520 Mhz
Channel Capacity	Trunking zone capacity:15
	Trunking talkgroup capacity: 16
	Conventional channel capacity: 16
Power Output	1-25W
Power Supply	13.2Vdc (10.8-15.6Vdc)
Dimensions (HxWxL)	72mm x 185mm x 188mm
Weight	1.43kg
Current Drain:	
Standby	0.3A
Rx @ rated, external 8 ohm	1.5A
Transmit	8A @ 25W
Operating Temperature	-30 to +60 degC
Storage Temperature	-55 to +85 degC

TRANSMITTER

Channel Spacing	12.5/20/25 kHz
Frequency Stability	+/- 2.5ppm
Modulation limiting	+/- 2.5kHz @ 12.5kHz
	+/-4.0 kHz @ 20kHz
	+/-5.0 kHz @ 25kHz
FM Hum & Noise	-40dB @ 12.5kHz
	-45dB @ 20/25kHz
Conducted/ Radiated Emissions	- 36dBm < 1 GHz
	- 30dBm > 1 GHz
Adjacent Channel Power	- 60dB @ 12.5kHz
	- 70dB @ 20/25kHz
Audio Response (from 6 dB/oct.	
Pre-Emphasis 300 to 3000Hz)	ETS300 & CEPT84 Annex 2
Audio Distortion @ 1000Hz,	3% typical
60% Rated max Deviation	

RECEIVER

Sensitivity (12dBSINAD)	0.30uV (0.22 uV typical)
Intermodulation	> 75dB
Adjacent Channel Selectivity	75dB @ 25 kHz
	70 dB @ 20 kHz
	65 dB @ 12.5 kHz
Spurious Rejection	75dB @ 20/25 kHz
	70 dB @ 12.5 kHz
Rated Audio	3W Internal
	7.5W & 13W External
Audio Distortion @ rated audio	3% typical
Hum & Noise	-40dB @ 12.5kHz
	-45dB @ 20/25kHz
Audio Response (from 6 dB/oct.	
Pre-Emphasis 300 to 3000Hz)	TIA 603 & ETS300 & CEPT84 Annex 2
Conducted Spurious Emission	- 57dBm < 1 GHz
	- 47dBm > 1 GHz

* Availability subject to country law and regulations / Specifications subject to change without notice.
All specifications shown are typical. Radios meet applicable regulatory requirements.

PORTABLE MILITARY STANDARDS 810C, D & E

810C

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.1	1
High Temp	501.1	1, 2
Low Temp	502.1	2
Temp. Shock	503.1	1
Solar Radiation	505.1	1
Rain	506.1	2
Humidity	507.1	2
Salt Fog	509.1	1
Dust	510.1	1
Vibration	514.2	8, 10
Shock	516.2	1, 2, 5

810D

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.2	1
High Temp	501.2	1, 2
Low Temp	502.2	1, 2
Temp. Shock	503.2	1
Solar Radiation	505.2	1
Rain	506.2	2
Humidity	507.2	2, 3
Salt Fog	509.2	1
Dust	510.2	1
Vibration	514.3	1
Shock	516.3	1

810E

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.3	2
High Temp	501.3	1, 2
Low Temp	502.3	1, 2
Temp. Shock	503.3	1
Solar Radiation	505.3	1
Rain	506.3	2
Humidity	507.3	3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1
Shock	516.4	1

For more information contact

Visit us at www.motorola.com.au

One-Year Warranty
Each Motorola radio is backed by a one-year warranty on radio parts and labour.

Accelerated Life Testing
Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.

MIL-STD 810C, D and E
Stamp of approval from the U.S. Military for use in rough environments.

ISO 9001 Standard
Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.

MOTOROLA

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